

**PRODUCTION OF 1-HEXENE**

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**Abstract of JP8183747**

**PURPOSE:** To provide a method for producing 1-hexene excellent in catalytic activity and selectivity and capable of suppressing the energy requirement for the separation and collection of the product low.

**CONSTITUTION:** This is a process for producing 1-hexene by trimerizing ethylene in a 1-hexene solvent, wherein a catalyst prepared by contacting the following (A), (B), (C) and (D) with each other in a 1-hexene solvent is used. (A) is a chromium-containing compound expressed by the general formula  $CrX_kY_m$  (X is a carboxylic acid residue, a 1,3-diketone residue, a halogen atom or an alkoxyl group; Y is an amine, a phosphine, a phosphineoxide, a nitrosyl group or an ether). (B) is a trialkylaluminum or a dialkylaluminumhydrido. (C) is a pyrrole or its derivative. (D) is a halide of an atom of the group 13 expressed by the general formula  $MTtU_3$ -t (M is an atom of the group 13; T is an alkyl group, an aryl group, an allyl group or hydrogen atom; U is a halogen atom) or a halide of an atom of the group 14 expressed by the general formula  $M'T't'U'_4$ -t' (M' is an atom of the group 14).

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